

**Camfil Farr introduces a new  
way of comparing air filters.**

**A B C D E F G**

## **We have made choosing filters as easy as ABC.**

The newly developed Energy & Air Quality Rating makes it easy to reduce energy consumption. And, at the same time, it guarantees the air quality. These two critical factors were taken into consideration during the development of our new classification system. If a filter achieves a good grade, it is because it cuts costs and makes the air clean. It's as simple as that.



## Honestly, how did you choose filters before?

Selecting the correct air filter has never been easy. But the Energy & Air Quality Rating changes that. Using the rating system, it's easy to choose the right air filter for your needs. It's important, however, to be aware that an A-filter is not always the right choice for you. The top rating may be appropriate for a medical or food application where the demand for air quality is critical. Conversely, a lower grade may be the best choice in other circumstances. Whatever your budget and your requirement for air quality, there will be a rating letter to meet your needs. The selection process will be both easy and precise. Possibly, you will even enjoy it.



# **It's not just about new EU energy concepts, it's about your grandchildren.**

The new and more stringent requirements aim to make your company more energy efficient. But the most important aspect is much closer to home. At Camfil Farr, we are constantly striving to develop new technologies and methods that make us even more environmentally friendly. We want to give our children and our grandchildren the opportunity to grow up in a clean environment. At the end of the day, that's what matters most.



# This symbol will speak volumes in your annual report.



The cost of energy is at an all-time high and will continue to increase. It has never been more important to strive for energy efficiency. In some cases we have seen that air filters may be responsible for as much as 30 percent of the total energy consumption in an air-handling unit. Consequently, there is substantial profit to be made by choosing wisely. The Energy & Air Quality Rating helps you control your energy consumption. That will save you money. Actually, a lot of money.

## **Why one of the leading filter companies cares.**

We believe in transparency and honesty. The filter industry is clouded by numbers and figures, making it virtually impossible to compare different filters. We want to clean up the mess. Surely, the customer will profit from having all the facts when deciding which filter to choose. But we also believe that the industry itself will benefit from a common standard, since it puts pressure on developers to make energy efficient filters. And when a company develops an excellent filter, we think it should be rewarded. With an "A".

## **Objectively tested.**

Filter efficiency in actual use was an essential parameter when developing the Energy & Air Quality Rating. To guarantee independent verification of the discharged efficiency value, we collaborated with the Technical Research Institute of Sweden (SP) - a leading organisation in the development of sustainable energy and environmental technology in Europe. The data was obtained through long-term measurements, performed under realistic conditions.



# As you can see, the advantages are obvious.

$$EI = \frac{\text{Energy (kWh)}}{\text{DE (\%)}}$$

Well, maybe not crystal clear. Differentiating air filters is a complex matter. Many variables impact a comparison study, and not all are self-evident. Laboratory testes are made under controlled conditions and test protocols are an imperfect compromise of actual conditions. In actual use, most air filters will remain in a system for months or even years. During that time, an air filter will see dozens or hundreds of environmental changes such as temperature, humidity, airflow velocity and particle load. Add to this the fact that it is not impossible for suppliers to manipulate observations or data to best suit their needs. With the Energy & Air Quality Rating all you really need to look at is a single letter. All in all, we like to think the advantages are quite obvious.

## Classification scheme

Class	EI
<b>A</b>	0-25
<b>B</b>	26-50
<b>C</b>	51-75
<b>D</b>	76-100
<b>E</b>	101-200
<b>F</b>	201-400
<b>G</b>	400-

## Examples from Camfils assortment

Filter	Size (mm)	Airflow (m <sup>3</sup> /s)	Av. P.d (Pa)	Running time (h)	Fan efficiency (η <sub>tot</sub> )	DE (%)	Energy (kWh)	EI	Class
Hi-Flo XLT F7	592x592x640	0,944	104	5800	0,55	56	1035	18	A
Opakfil Green F6	592x592x290	0,944	82	5800	0,55	26	816	31	B
Hi-Flo TM6	592x592x380	0,944	114	5800	0,55	22	1135	52	C
Hi-Flo A5	592x592x600	0,944	82	5800	0,55	9	816	91	D
S-Flo-W P8	592x592x534	0,944	228	5800	0,55	22	2270	103	E
30/30	24"x24"x2"	0,944	153	5800	0,55	7	1523	218	F
Camplis	24"x24"x2"	0,944	220	5800	0,55	3	2190	730	G

Av. P.d = Average pressure drop that changes over time, calculated by LCC.

DE = Discharged efficiency in actual environment.

EI = Energy divided by DE according to the formula above.

